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# TECHNICAL MEMORANDUM

## TxDOT IAC – Technical Support to the CAV Task Force

**DATE:** August 12, 2020

**TO:** Zeke Reyna, TxDOT  
 Strategic Research Analyst, CAV

**COPY TO:** TTI\_Reports@tti.tamu.edu  
 Tim Hein, Research Development Office, TTI  
 Ed Seymour, Executive Associate Agency Director, TTI  
 Robert Brydia, Senior Research Scientist, TTI

**FROM:** Beverly Kuhn Research Supervisor  
 Senior Research Engineer Texas A&M Transportation Institute

**RE:** Data, Connectivity, Cyber Security, and Privacy Subcommittee  
 July 13, 2020 Meeting Notes

**Attendees:**

Alex Payson	Austin Transportation Smart Mobility Office
Andrea Chacon	TTI
Andrea Chavez	Grace & McEwan Consulting, LLC
Anne O’Ryan	AAA Texas
Beverly West	TxDOT Strategic Planning Division
Bob Brydia	TTI
Bobby Cottam	McDonald
Brent Eastman	TxDOT IT Division
Bret Skorup	Mercadus at George Mason University
Brian Steiner	Cisco Systems
Darran Anderson	TxDOT
Donald Davidson	Volkswagen Group of America
Ed Seymour	TTI

Gary Wallace	Sirius XM Connected Vehicle-Dallas
Hannah Barron	Austin Transportation Smart Mobility Office
Jason JonMichael	City of Austin Smart Mobility Office
Jeff DeCoux	Autonomy Institute
Kathleen Baireuther	Ford Autonomous Vehicles
Kellen Pucher	Panasonic
Leighton Yates	Alliance for Automotive Innovation
Matthew Smith	Michael Baker International
Monica Darwish	Embark Trucks
Sam Dreiman	Argo AI
Scott Carlson	Austin Office
Steve Pustelnyk	CTRMA
Steven Smith	McKinsey & Company
Tom Bamonte	NCTCOG
Tom Black	Gartner
Tony Reinhart	Ford Motor Company

**I. Opening Comments/Roll Call – Zeke Reyna, TxDOT**

- Zeke welcomed the group.
- Meeting notes have been sent out.
- Narrowing down list for 2020 white papers.
- Zeke took a roll call of all attendees.

**II. Chair Welcoming Statement – Brian Steiner, Cisco**

- Brian thanked everyone for attending. Amazing participation and communication last session. Talking through set up of white paper. Thank you to TxDOT and TTI for facilitating; allowing Bob to run structure of meeting.

**III. Topics Highlighted for Task Force Efforts – Zeke Reyna, TxDOT**

- Sixteen topics had been identified in the October 2019 Task Force meeting applicable to the Data, Connectivity, Cyber Security, and Privacy Subcommittee.
- They were reconfirmed and expanded upon during the June 2020 Task Force meeting. In July they were further discussed and prioritized through voting.
- Five highlighted topics were identified as follows:
  - **Data Needs**
    - Tight focus on TxDOT and local DOTs and write paper from /their perspective. –
    - Brings focus to the effort.
    - Other state agencies that may have needs (DMV DPS, etc.)

- What does a plan look like? Different in Austin than on I-35. May be about communities rather than state as a whole.
  - Level 4 requires mapping and then function within that space.
  - Develop as a statewide plan but may develop as individual areas.
  - 2-way data needs
  - Helping us (TxDOT) understand how this saves lives.
  - Look at data analytics
  - Identifying tools in the toolbox for agencies to work together to bridge gaps
  - Freight providers may be willing to look at collaborative efforts in the data area
  - We are not just arguing on technologies--we are recommending paths for immediate benefits to drivers, including freight
  - Broad-based improvement
- **Network Framework and Strategy**
  - Preserve privacy and security for all players that may piggyback on these systems.
  - What does this look like?
- **Security**
  - Security and Privacy
  - What should we look at?
  - Who are the involved parties?
- **Architecture**
  - May be very similar to network framework
- **Needed Infrastructure**
  - Area where committee could be very helpful on.
  - ROW and ROW policy is where we have a lot of control.
  - Do we try to design what this looks like?
  - Infrastructure related to AV
  - What does industry need from public sector and what are the challenges
  - What is the flip side?
  - ITS infrastructure eligible for Federal funding
- **Roles of Agencies**
  - Security and Privacy
  - What should we look at?
  - Who are the involved parties?
- **Transit**
  - Freight and transit may be in a similar place/area of effort
  - Moving to a smaller platform
  - More pervasive on demand scheduling
  - More localized delivery options
  - Hits workforce development
  - Electrification
- **Safety and Safe Passage**
  - Low speed sidewalk delivery

- Safe passage at intersections
- These five topics will be voted on prior to the august meeting and the results will become the basis for the first white paper.

**IV. Next Steps – Brian Steiner / Zeke Reyna**

- Next meeting will be 2<sup>nd</sup> week of August or so.
- Next session general, by category (not proprietary), overview of types of data currently accessible and being shared among sectors to be shared.

**V. Closing Remarks – Brian Steiner**

- Thanked for participation and collaboration.
- July 21<sup>st</sup> full task force meeting (1:30-4:00pm). SC chairs giving brief update on SCs and topics being looked at.
- Pre-presentation sent around to make sure everyone is on same page before full meeting.